Please help me plan a trip from St. Petersburg to Rockford spanning 3 days from March 16th to March 18th, 2022. The travel should be planned for a single person with a budget of \$1,700.

## 1) Query to Steps

# Initialize Z3 solver s
# Set city to be a list contains Rockford
# Assert first transportation happens at first day
# Run FlightSearch() to get flight info

# Set budget limit variable to be 1700



## **Codes update**

The previous codes are: <...> Now we want to <change destination city to Chicago >



optional feedback

- Unsat reason: invalid flight for transportation 0
  1) Info collection FlightCheck(St. Petersburg, Rockford)
   -> no flight available
- **2) Analysis** No flight available between St. Petersburg and Rockford. Need to change the destination city.
- 3) Info collection FlightSearch(St. Petersburg)
   -> flight available from St. Petersburg to Chicago, Elmira, Niagara Falls, Grand Rapids...
- 4) Suggestion Your query is not satisfiable, we suggest you to <change destination city to Chicago>